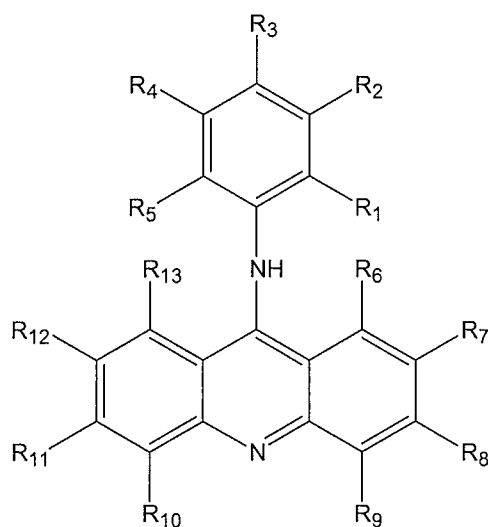


Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended) A compound having formula (I):



(I)

wherein,

each of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub>, and R<sub>13</sub> is, independently, hydrogen, halo, nitro, hydroxyl, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, CONHR<sup>a</sup>, NR<sup>b</sup>R<sup>c</sup>, CONH(CH<sub>2</sub>)<sub>m</sub>NR<sup>b</sup>R<sup>c</sup>, L-N(CH<sub>2</sub>CH<sub>2</sub>Cl)<sub>2</sub>, or a DNA minor groove binder;

L is (CH<sub>2</sub>)<sub>p</sub> or O(CH<sub>2</sub>)<sub>q</sub>;

m is 1, 2, 3, or 4;

p is 0, 1, 2, 3, or 4;

q is 1, 2, 3, 4, 5, 6, 7, or 8;

in which, R<sup>a</sup> is C<sub>1</sub>-C<sub>6</sub> alkyl; each of R<sup>b</sup> and R<sup>c</sup> is, independently, hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, COR<sup>d</sup>, or COOR<sup>d</sup>; R<sup>d</sup> is C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>6</sub>-C<sub>10</sub> aryl, or C<sub>7</sub>-C<sub>12</sub> aralkyl; and provided that at least one of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub>, and R<sub>13</sub> is L-N(CH<sub>2</sub>CH<sub>2</sub>Cl)<sub>2</sub>, or a salt thereof.

2. (Original) The compound of claim 1, wherein L is  $(\text{CH}_2)_p$ .
3. (Original) The compound of claim 2, wherein p is 0 or 1.
4. (Original) The compound of claim 1, wherein L is  $\text{O}(\text{CH}_2)_q$ .
5. (Original) The compound of claim 4, wherein q is 2 or 4.
6. (Original) The compound of claim 1, wherein one of  $\text{R}_1$ ,  $\text{R}_2$ ,  $\text{R}_3$ ,  $\text{R}_4$ , or  $\text{R}_5$  is  $\text{L-N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ .
7. (Original) The compound of claim 6, wherein  $\text{R}_2$  or  $\text{R}_3$  is  $\text{L-N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ .
8. (Original) The compound of claim 7, wherein  $\text{R}_2$  is  $\text{L-N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ .
9. (Original) The compound of claim 8, wherein L is  $(\text{CH}_2)_p$ .
10. (Original) The compound of claim 9, wherein p is 0 or 1.
11. (Original) The compound of claim 8, wherein L is  $-\text{O}(\text{CH}_2)_q-$ .
12. (Original) The compound of claim 11, wherein q is 2 or 4.
13. (Original) The compound of claim 8, wherein each of  $\text{R}_1$ ,  $\text{R}_3$ ,  $\text{R}_4$ , and  $\text{R}_5$  is, independently, hydrogen,  $\text{C}_1$ - $\text{C}_6$  alkyl,  $\text{C}_1$ - $\text{C}_6$  alkoxy, or  $\text{C}_1$ - $\text{C}_6$  hydroxyalkyl.
14. (Original) The compound of claim 13, wherein  $\text{R}_4$  is  $\text{C}_1$ - $\text{C}_6$  hydroxyalkyl.

15. (Original) The compound of claim 14, wherein  $R_4$  is  $\text{CH}_2\text{OH}$ .
16. (Original) The compound of claim 13, wherein each of  $R_1$ ,  $R_3$ ,  $R_4$ , and  $R_5$  is hydrogen.
17. (Original) The compound of claim 7, wherein  $R_3$  is  $\text{L-N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ .
18. (Original) The compound of claim 17, wherein  $\text{L}$  is  $(\text{CH}_2)_p$ .
19. (Original) The compound of claim 18, wherein  $p$  is 0 or 1.
20. (Original) The compound of claim 17, wherein  $\text{L}$  is  $-\text{O}(\text{CH}_2)_q-$ .
21. (Original) The compound of claim 20, wherein  $q$  is 2 or 4.
22. (Original) The compound of claim 17, wherein each of  $R_1$ ,  $R_2$ ,  $R_4$ , and  $R_5$  is, independently, hydrogen,  $\text{C}_1\text{-C}_6$  alkyl,  $\text{C}_1\text{-C}_6$  alkoxy, or  $\text{C}_1\text{-C}_6$  hydroxyalkyl.
23. (Original) The compound of claim 21, wherein each of  $R_1$ ,  $R_2$ ,  $R_4$ , and  $R_5$  is hydrogen.
24. (Original) The compound of claim 6, wherein each of  $R_6$ ,  $R_7$ ,  $R_8$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ , and  $R_{13}$  is, independently, hydrogen, halo, nitro,  $\text{C}_1\text{-C}_6$  alkyl,  $\text{C}_1\text{-C}_6$  alkoxy,  $\text{CONHR}^a$ ,  $\text{CONH}(\text{CH}_2)_m\text{NR}^b\text{R}^c$ ,  $\text{L-N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ , or a DNA minor groove binder.
25. (Original) The compound of claim 24, wherein each of  $R_6$ ,  $R_7$ ,  $R_8$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ , and  $R_{13}$  is, independently, hydrogen,  $\text{C}_1\text{-C}_6$  alkyl,  $\text{CONH}(\text{CH}_2)_m\text{NR}^b\text{R}^c$ ,  $\text{L-N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ , or a DNA minor groove binder.

26. (Original) The compound of claim 25, wherein one of  $R_9$  and  $R_{10}$  is  $\text{CONH}(\text{CH}_2)_m\text{NR}^b\text{R}^c$ ,  $\text{L-N}(\text{CH}_2\text{CH}_2\text{Cl})_2$ , or a DNA minor groove binder, and the other is  $\text{C}_1\text{-C}_6$  alkyl or hydrogen.

27. (Original) The compound of claim 26, wherein one of  $R_9$  and  $R_{10}$  is  $\text{CONH}(\text{CH}_2)_m\text{NR}^b\text{R}^c$  and the other is  $\text{C}_1\text{-C}_6$  alkyl or hydrogen.

28. (Original) The compound of claim 27, wherein one of  $R_9$  and  $R_{10}$  is  $\text{CONH}(\text{CH}_2)_2\text{N}(\text{CH}_3)_2$  and the other is  $\text{CH}_3$  or hydrogen.

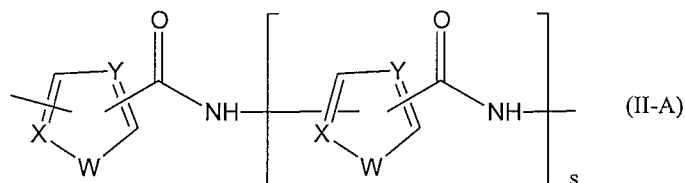
29. (Original) The compound of claim 26, wherein one of  $R_9$  and  $R_{10}$  is  $\text{L-N}(\text{CH}_2\text{CH}_2\text{Cl})_2$  and the other is  $\text{C}_1\text{-C}_6$  alkyl or hydrogen.

30. (Original) The compound of claim 29, wherein one of  $R_9$  and  $R_{10}$  is  $\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$  or  $\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$  and the other is  $\text{CH}_3$  or hydrogen.

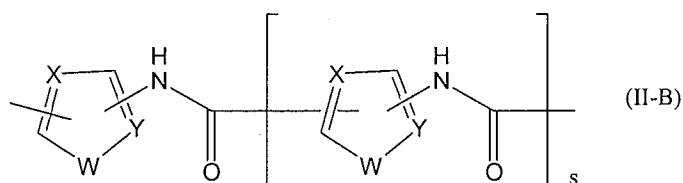
31. (Original) The compound of claim 29, wherein one of  $R_9$  and  $R_{10}$  is  $\text{O}(\text{CH}_2)_2\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$  or  $\text{O}(\text{CH}_2)_4\text{N}(\text{CH}_2\text{CH}_2\text{Cl})_2$  and the other is  $\text{CH}_3$  or hydrogen.

32. (Original) The compound of claim 26, wherein one of  $R_9$  and  $R_{10}$  is a DNA minor groove binder and the other is  $\text{C}_1\text{-C}_6$  alkyl or hydrogen.

33. (Original) The compound of claim 32, wherein one of  $R_9$  and  $R_{10}$  is  $\text{CONH}(\text{CH}_2)_r\text{-J-W-(CH}_2)_t\text{R}^c$  and the other is  $\text{CH}_3$  or hydrogen; wherein  $r$  is 1, 2, 3, 4, or 5;  $t$  is 1, 2, 3, or 4, 5, or 6;  $J$  is  $\text{-CONH-}$  or  $\text{-NHCO-}$ ;  $W$  is:



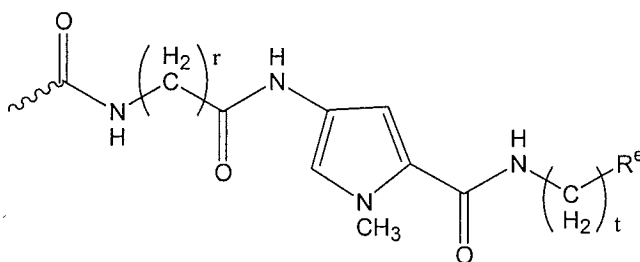
or



in which  $s$  is 0, 1, 2, 3, or 4; each of  $X$  and  $Y$  is, independently,  $N$  or  $CR^f$  and  $W$  is  $NR^g$ ,  $O$ , or  $S$ ;  $R^e$  is  $NR^bR^c$ ,  $NHCHO$ , or  $NHC(=NH)NH_2$ ; each of  $R^b$  and  $R^c$  is, independently, hydrogen,  $C_1$ - $C_6$  alkyl,  $COR^d$ , or  $COOR^d$ ; and each of  $R^f$  and  $R^g$  is, independently, hydrogen or  $C_1$ - $C_6$  alkyl.

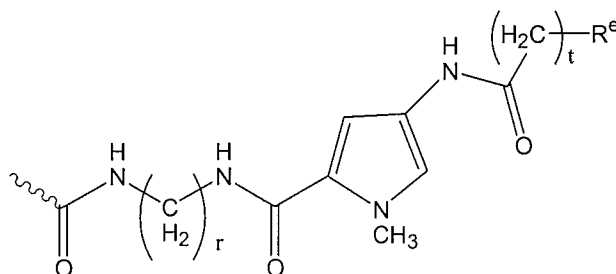
34. (Original) The compound of claim 33, wherein  $s$  is 0, each of  $X$  and  $Y$  is  $CH$ , and  $W$  is  $NCH_3$ .

35. (Original) The compound of claim 34, wherein one of  $R_9$  and  $R_{10}$  is:



36. (Original) The compound of claim 35, wherein  $r$  and  $t$  are both 3, and  $R^e$  is  $N(CH_3)_2$ ,  $NHCHO$ , or  $NHC(=NH)NH_2$ .

37. (Original) The compound of claim 34, wherein one of  $R_9$  and  $R_{10}$  is:



38. (Original) The compound of claim 36, wherein  $r$  and  $t$  are both 3, and  $R^e$  is  $N(CH_3)_2$ ,  $NHCHO$ , or  $NHC(=NH)NH_2$ .

39. (Original) The compound of claim 24, wherein each of  $R_6$ ,  $R_7$ ,  $R_8$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ , and  $R_{13}$  is hydrogen.

40. (Original) The compound of claim 1, wherein one of  $R_6$ ,  $R_7$ ,  $R_8$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ , and  $R_{13}$  is  $L-N(CH_2CH_2Cl)_2$ .

41. (Original) The compound of claim 40, wherein  $R_9$  is  $L-N(CH_2CH_2Cl)_2$ .

42. (Original) The compound of claim 41, wherein  $L$  is  $(CH_2)_p$ .

43. (Original) The compound of claim 42, wherein  $p$  is 0 or 1.

44. (Original) The compound of claim 41, wherein  $L$  is  $-O(CH_2)_q-$ .

45. (Original) The compound of claim 44, wherein  $q$  is 2 or 4.

46. (Currently amended) The compound of claim 41, wherein each of  $R_6$ ,  $R_7$ ,  $R_8$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ , and  $R_{13}$  is, independently, hydrogen, halo, nitro, hydroxyl,  $C_1$ - $C_6$  alkyl, or  $C_1$ - $C_6$  alkoxy.

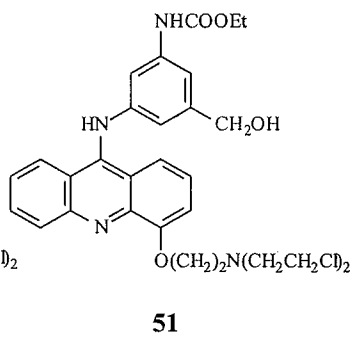
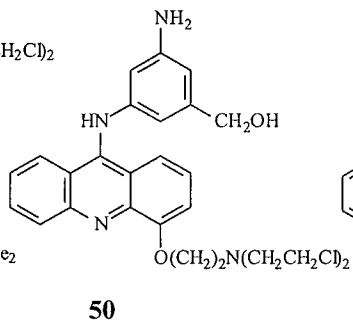
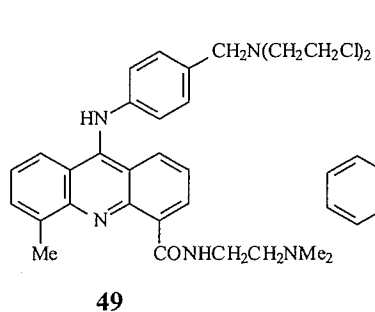
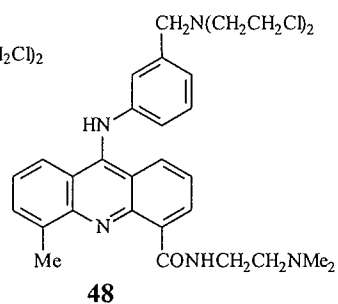
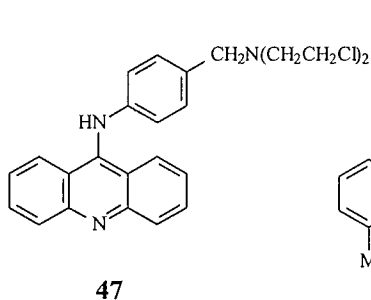
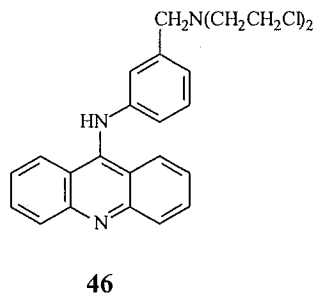
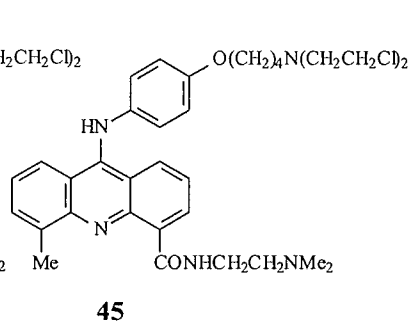
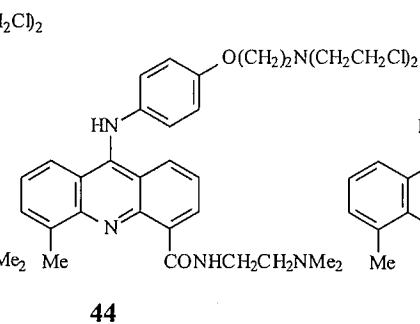
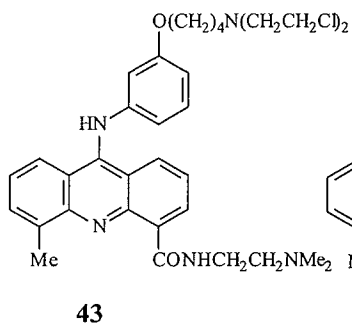
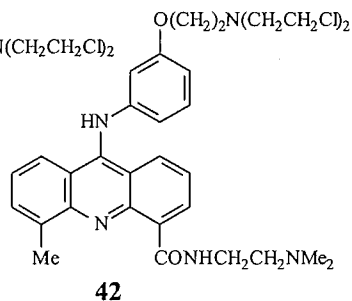
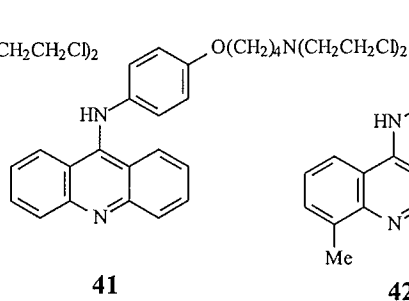
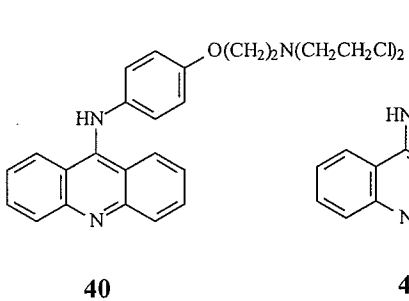
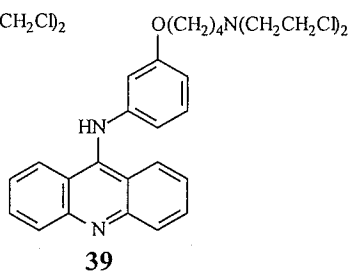
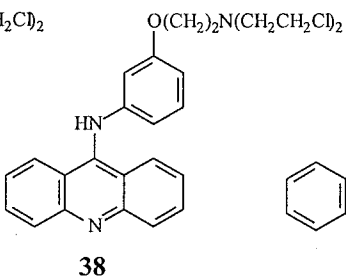
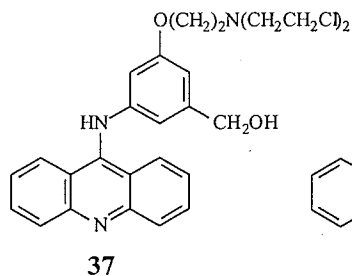
47. (Currently amended) The compound of claim 40, wherein each of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, or R<sub>5</sub> is, independently, hydrogen, ~~hydroxyl~~, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, or NR<sup>b</sup>R<sup>c</sup>.

48. (Currently amended) The compound of claim 47, wherein R<sub>2</sub> is ~~hydroxyl~~ or NR<sup>b</sup>R<sup>c</sup> and R<sub>4</sub> is C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl.

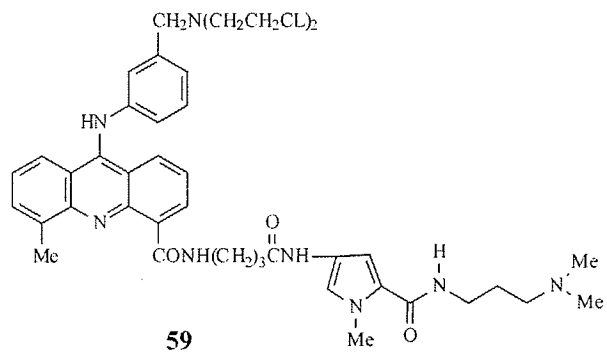
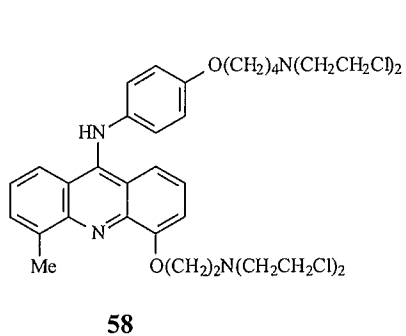
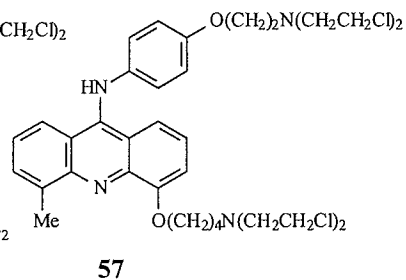
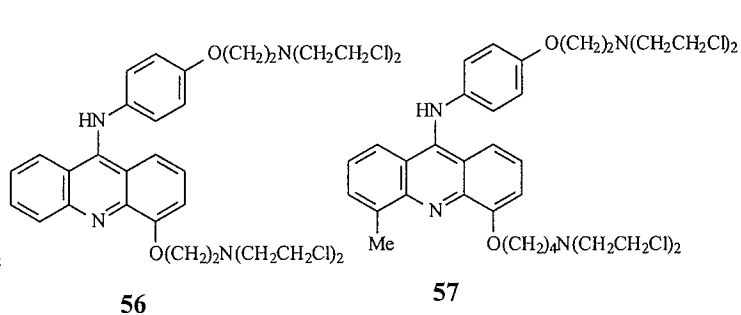
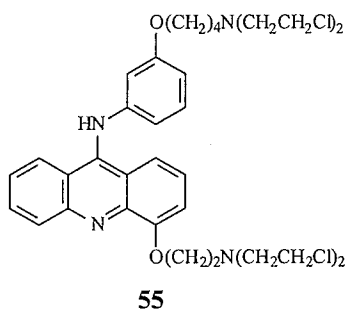
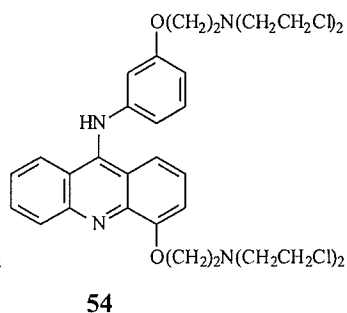
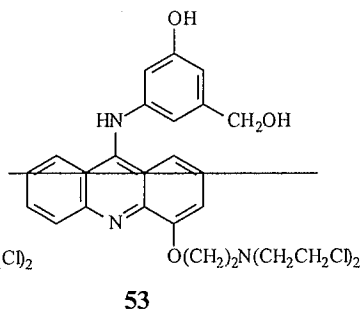
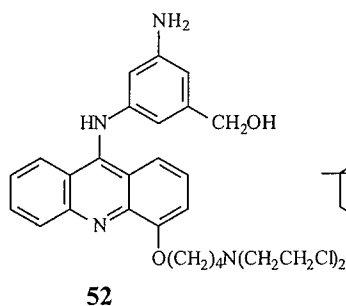
49. (Original) The compound of claim 48, wherein R<sub>2</sub> is NH<sub>2</sub> or NHCOOCH<sub>2</sub>CH<sub>3</sub>.

50. (Original) The compound of claim 48, wherein R<sub>4</sub> is CH<sub>2</sub>OH.

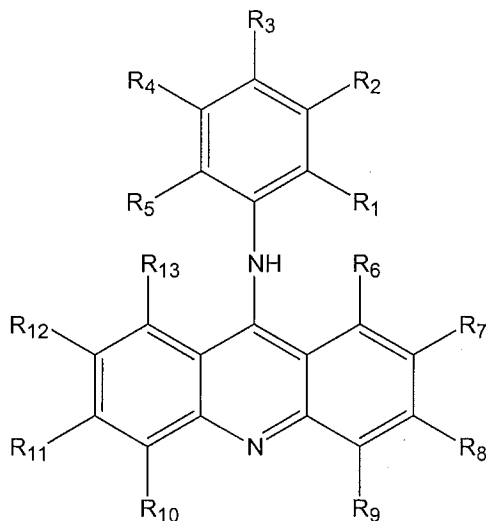
51. (Currently amended) The compound of claim 1, wherein the compound is:







52. (Currently amended) A pharmaceutical composition comprising a compound of formula (I) and a pharmaceutically acceptable carrier:



wherein,

each of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub>, and R<sub>13</sub> is, independently, hydrogen, halo, nitro, hydroxyl, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, CONHR<sup>a</sup>, NR<sup>b</sup>R<sup>c</sup>, CONH(CH<sub>2</sub>)<sub>m</sub>NR<sup>b</sup>R<sup>c</sup>, L-N(CH<sub>2</sub>CH<sub>2</sub>Cl)<sub>2</sub>, or a DNA minor groove binder;

L is (CH<sub>2</sub>)<sub>p</sub> or O(CH<sub>2</sub>)<sub>q</sub>;

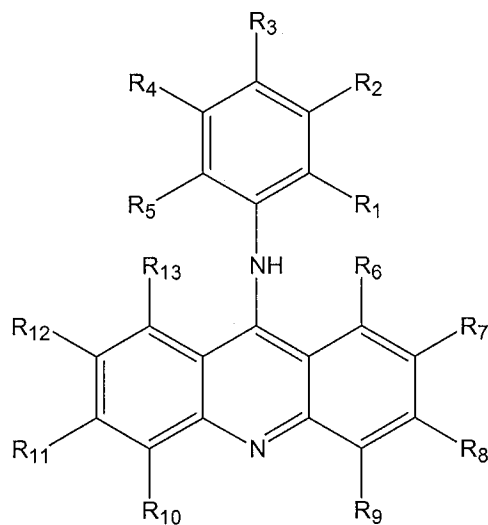
m is 1, 2, 3, or 4;

p is 0, 1, 2, 3, or 4;

q is 1, 2, 3, 4, 5, 6, 7, or 8;

in which, R<sup>a</sup> is C<sub>1</sub>-C<sub>6</sub> alkyl; each of R<sup>b</sup> and R<sup>c</sup> is, independently, hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, COR<sup>d</sup>, or COOR<sup>d</sup>; R<sup>d</sup> is C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>6</sub>-C<sub>10</sub> aryl, or C<sub>7</sub>-C<sub>12</sub> aralkyl; provided that at least one of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub>, and R<sub>13</sub> is L-N(CH<sub>2</sub>CH<sub>2</sub>Cl)<sub>2</sub>; or a pharmaceutically acceptable salt thereof.

53. (Currently amended) A method of treating cancer, the method comprising administering to a subject in need thereof an effective amount of a compound of formula (I):



wherein,

each of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub>, and R<sub>13</sub> is, independently, hydrogen, halo, nitro, hydroxyl, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, CONHR<sup>a</sup>, NR<sup>b</sup>R<sup>c</sup>, CONH(CH<sub>2</sub>)<sub>m</sub>NR<sup>b</sup>R<sup>c</sup>, L-N(CH<sub>2</sub>CH<sub>2</sub>Cl)<sub>2</sub>, or a DNA minor groove binder;

L is (CH<sub>2</sub>)<sub>p</sub> or O(CH<sub>2</sub>)<sub>q</sub>;

m is 1, 2, 3, or 4;

p is 0, 1, 2, 3, or 4;

q is 1, 2, 3, 4, 5, 6, 7, or 8;

in which, R<sup>a</sup> is C<sub>1</sub>-C<sub>6</sub> alkyl; each of R<sup>b</sup> and R<sup>c</sup> is, independently, hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, COR<sup>d</sup>, or COOR<sup>d</sup>; R<sup>d</sup> is C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>6</sub>-C<sub>10</sub> aryl, or C<sub>7</sub>-C<sub>12</sub> aralkyl; and provided that at least one of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub>, and R<sub>13</sub> is L-N(CH<sub>2</sub>CH<sub>2</sub>Cl)<sub>2</sub>; or a pharmaceutically acceptable salt thereof.